

## Special Issue

# Formation, Microstructure and Behavior of Metastable Austenite in Advanced High-Strength Steels

### Message from the Guest Editor

This Special Issue, “Formation and Behavior of Metastable Austenite in Advanced High-Strength Steels”, will include research papers and reviews on all aspects of metastable austenite in steels including, but not limited to, advanced processing of austenite-containing steels, austenite formation during heat treatment, microstructure development, solute partitioning and stabilization, effects of chemical composition, size, shape and triaxiality on austenite stability, stacking fault energy (SFE) effects, deformation-induced transformation under monotonic uniaxial or multiaxial loading, as well as cyclic loading, advanced experimental techniques to monitor the deformation-induced austenite transformation, modeling and simulation and finally alloy and process design for enhanced TRIP effects.

### Guest Editor

Prof. Dr. Gregory N. Haidemenopoulos  
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### Deadline for manuscript submissions

closed (20 January 2024)



## Materials

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*Materials* (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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